

Abstract of the Disclosure:

In order to generate a multiple of a unit U , N times U , by a digital circuit is provided, where U is a rational number and N is a natural number, the method comprises the following steps (1) to (5). (1) Where A , B and C are natural numbers, $A > 1$, $B > C$ and $U = A + C/B$, the values A , B and C are stored. (2) A multiple of A , N times A , and a multiple of C , N times C are generated. (3) The multiple of C is compared with the denominator B . (4) The multiple of A is modified according to the result of the comparing step (3). (5) The modified multiple of A is output as the multiple of U .